

FIG. 2



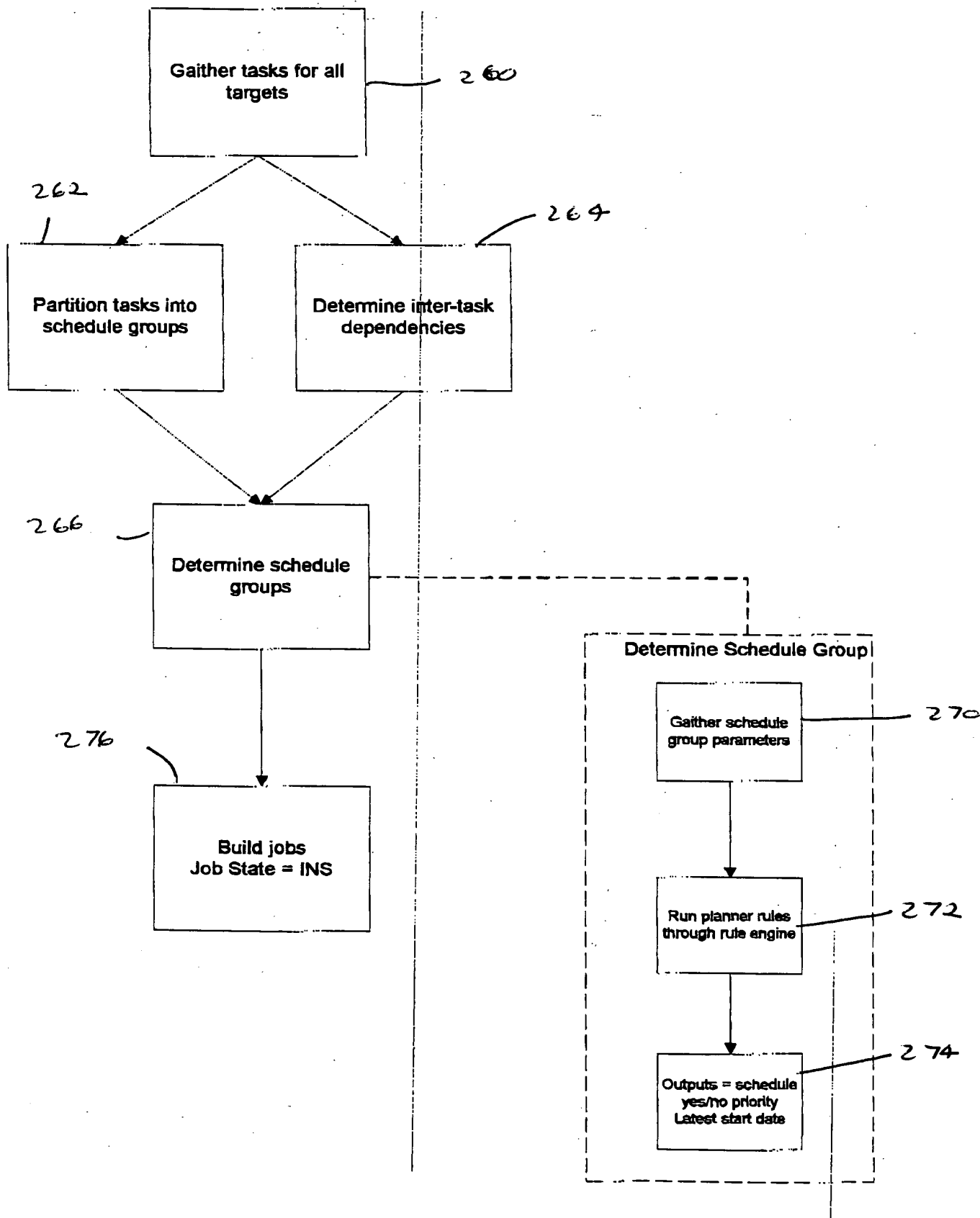


FIG. 4

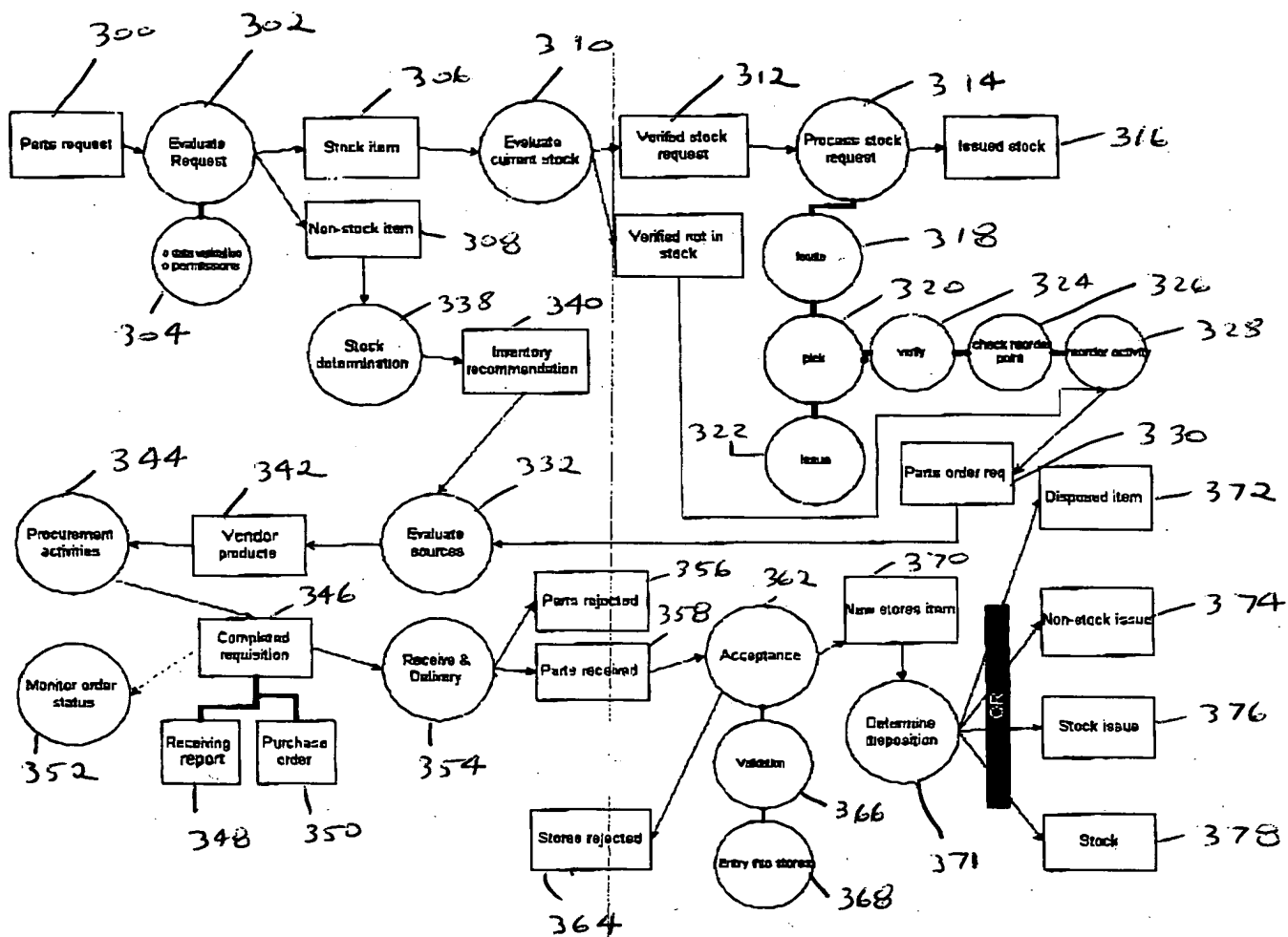


FIG. 5



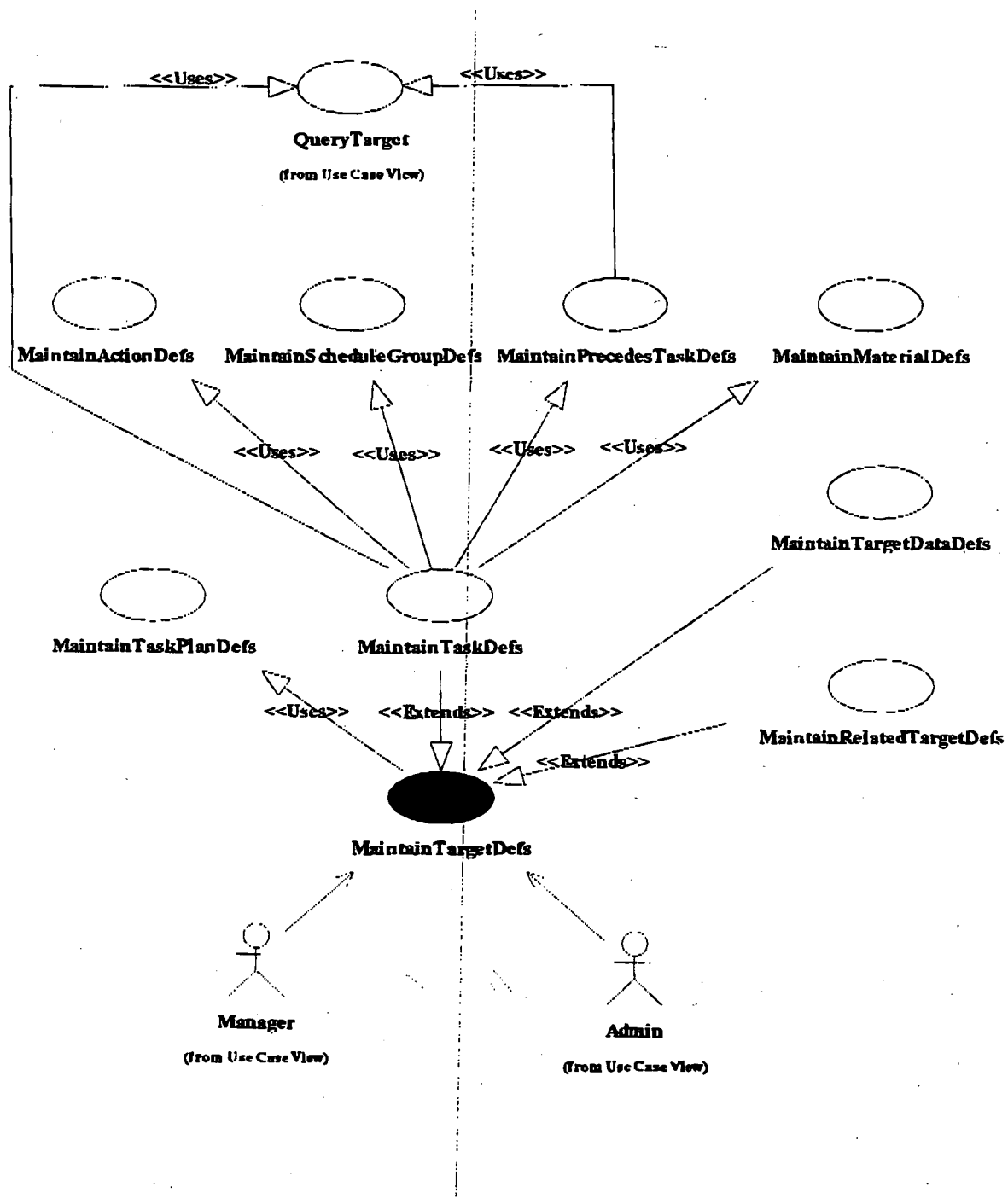
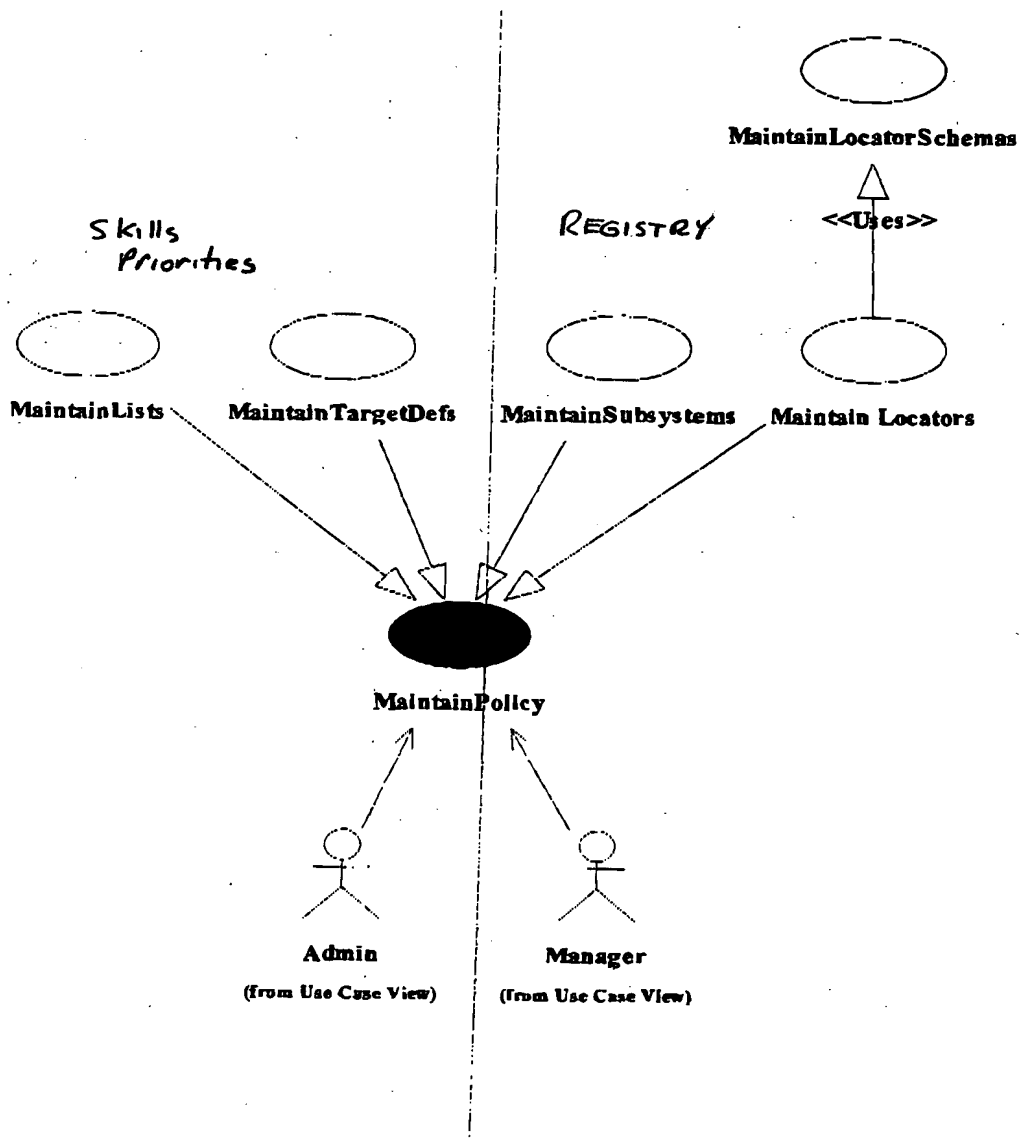


FIG. 7



F. 6. 8



```

    usecaseDiagram
        actor Manager
        actor Admin
        actor Client

        usecase UC1((MaintainProjects))
        usecase UC2((MaintainProjectJobs))
        usecase UC3((MaintainJobs))
        usecase UC4((TenantRequests))
        usecase UC5((AssignJobWorkers))
        usecase UC6((MaintainFieldConditions))
        usecase UC7((AssignJobTasks))
        usecase UC8((UpdateJobMaterial))
        usecase UC9((UpdateFieldConditions))
        usecase UC10((SelectClassification))
        usecase UC11((SelectLocators))
        usecase UC12((QueryTarget))
        usecase UC13((SelectTarget))
        usecase UC14((MaintainCrews))
        usecase UC15((MaintPrecedesJob))

        UC1 --> UC2 : <<Uses>>
        UC1 --> UC3 : <<Extends>>
        UC1 --> UC4 : <<Extends>>
        UC2 --> UC3 : <<Extends>>
        UC2 --> UC5 : <<Extends>>
        UC2 --> UC6 : <<Extends>>
        UC2 --> UC7 : <<Extends>>
        UC3 --> UC8 : <<Extends>>
        UC3 --> UC9 : <<Extends>>
        UC3 --> UC10 : <<Extends>>
        UC3 --> UC11 : <<Extends>>
        UC3 --> UC12 : <<Extends>>
        UC3 --> UC13 : <<Extends>>
        UC3 --> UC14 : <<Extends>>
        UC3 --> UC15 : <<Extends>>
        UC5 --> UC6 : <<Extends>>
        UC6 --> UC7 : <<Extends>>
        UC8 --> UC9 : <<Extends>>
        UC9 --> UC10 : <<Extends>>
        UC10 --> UC11 : <<Extends>>
        UC11 --> UC12 : <<Extends>>
        UC12 --> UC13 : <<Extends>>
        UC14 --> UC15 : <<Extends>>
        UC15 --> UC1 : <<Includes>>
        UC15 --> UC2 : <<Includes>>
        UC15 --> UC3 : <<Includes>>
        UC15 --> UC4 : <<Includes>>
        UC15 --> UC5 : <<Includes>>
        UC15 --> UC6 : <<Includes>>
        UC15 --> UC7 : <<Includes>>
        UC15 --> UC8 : <<Includes>>
        UC15 --> UC9 : <<Includes>>
        UC15 --> UC10 : <<Includes>>
        UC15 --> UC11 : <<Includes>>
        UC15 --> UC12 : <<Includes>>
        UC15 --> UC13 : <<Includes>>
        UC15 --> UC14 : <<Includes>>
        UC15 --> UC15 : <<Includes>>

        Manager -- UC1
        Manager -- UC2
        Manager -- UC3
        Manager -- UC4
        Manager -- UC5
        Manager -- UC6
        Manager -- UC7
        Manager -- UC8
        Manager -- UC9
        Manager -- UC10
        Manager -- UC11
        Manager -- UC12
        Manager -- UC13
        Manager -- UC14
        Manager -- UC15

        Admin -- UC1
        Admin -- UC2
        Admin -- UC3
        Admin -- UC4
        Admin -- UC5
        Admin -- UC6
        Admin -- UC7
        Admin -- UC8
        Admin -- UC9
        Admin -- UC10
        Admin -- UC11
        Admin -- UC12
        Admin -- UC13
        Admin -- UC14
        Admin -- UC15

        Client -- UC1
        Client -- UC2
        Client -- UC3
        Client -- UC4
        Client -- UC5
        Client -- UC6
        Client -- UC7
        Client -- UC8
        Client -- UC9
        Client -- UC10
        Client -- UC11
        Client -- UC12
        Client -- UC13
        Client -- UC14
        Client -- UC15
    
```

FIG. 9

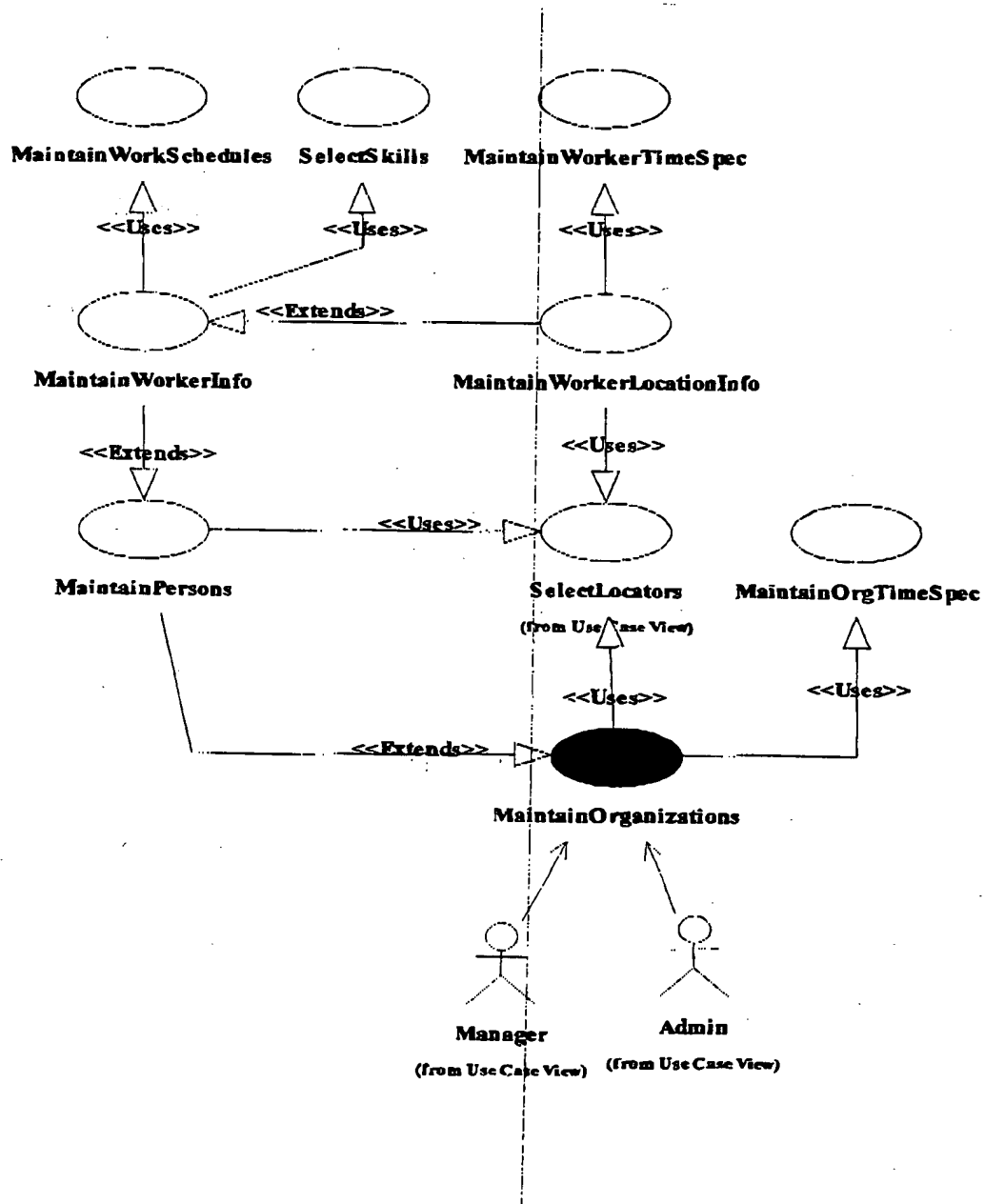


FIG. 10

F. G. 11

# Cleanup Algorithm

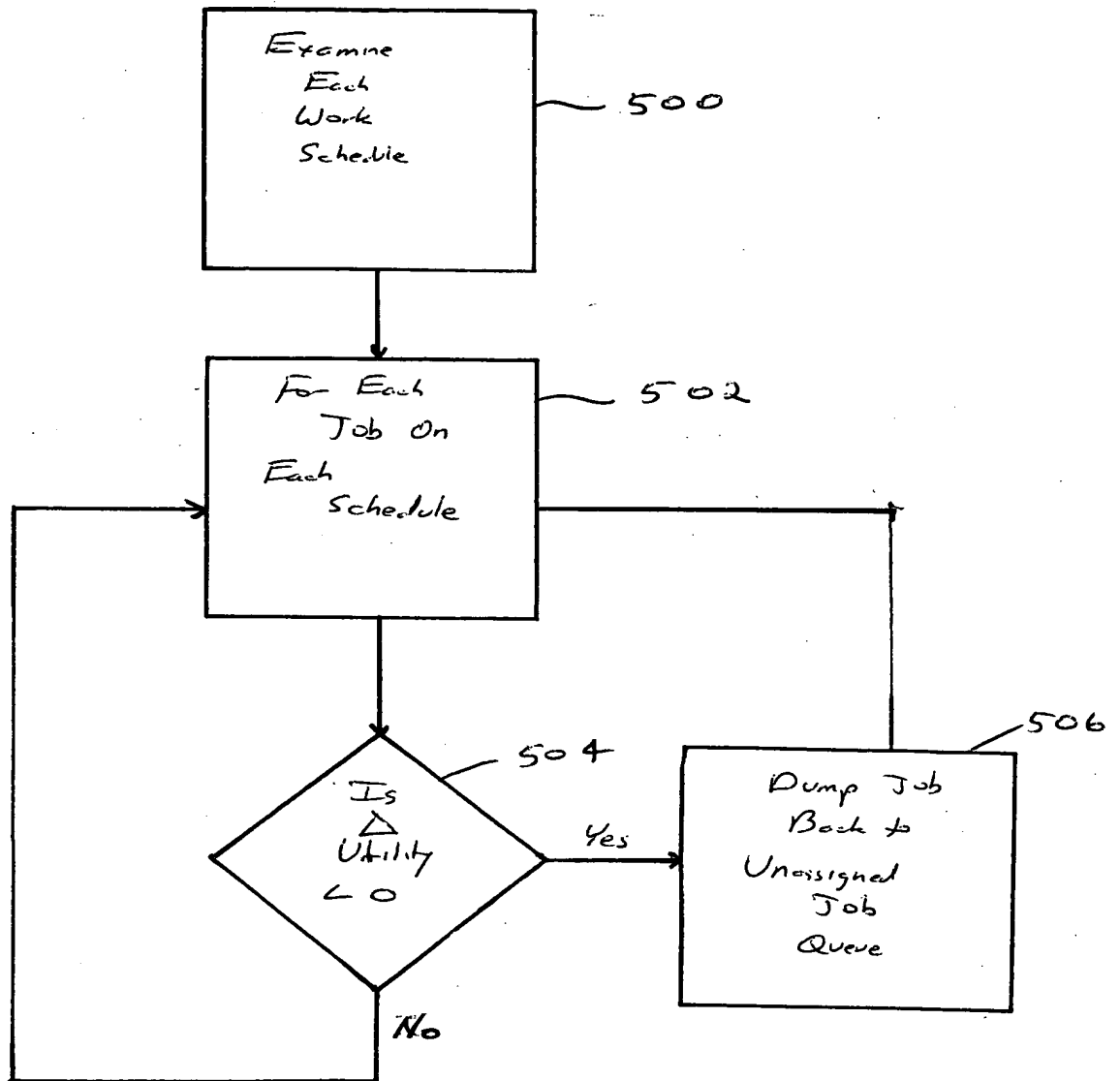


FIG. 12

# Brute Force Scheduling Algorithm

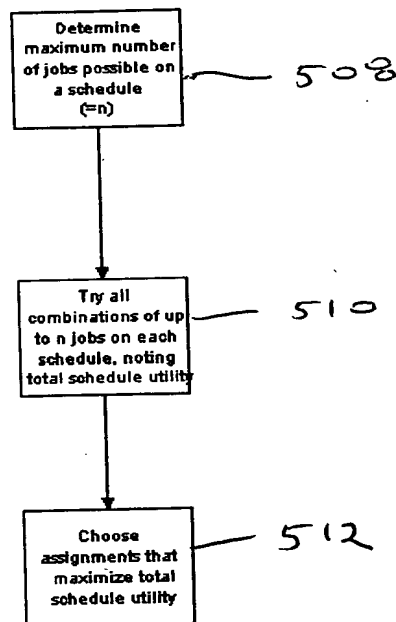


FIG. 13

# Reschedule

Algorithm

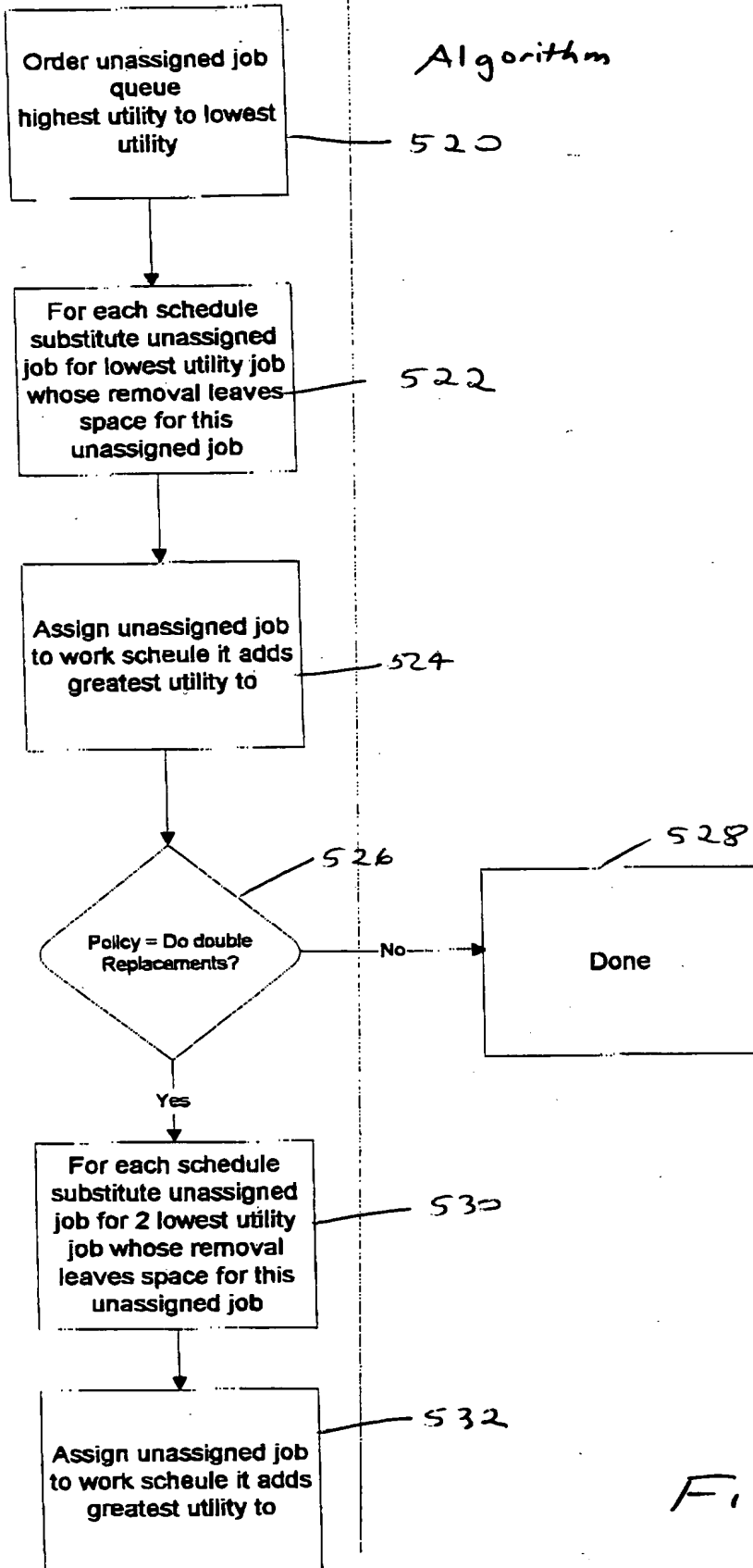


FIG. 14



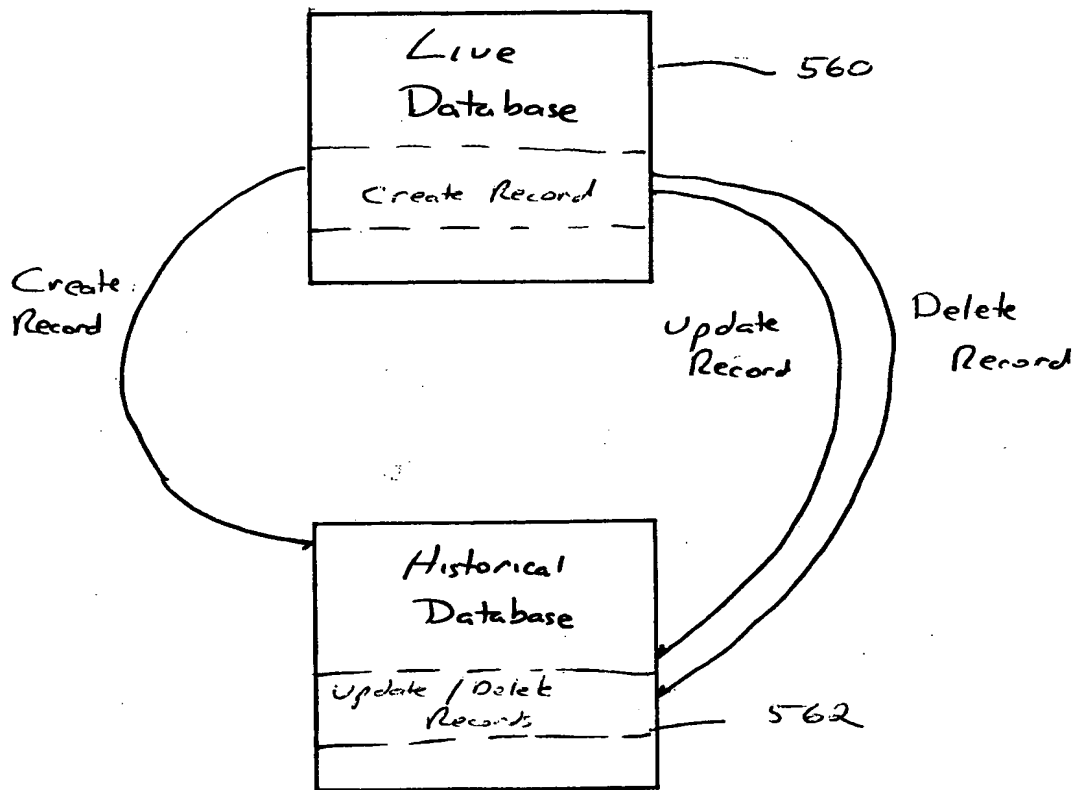


FIG. 16



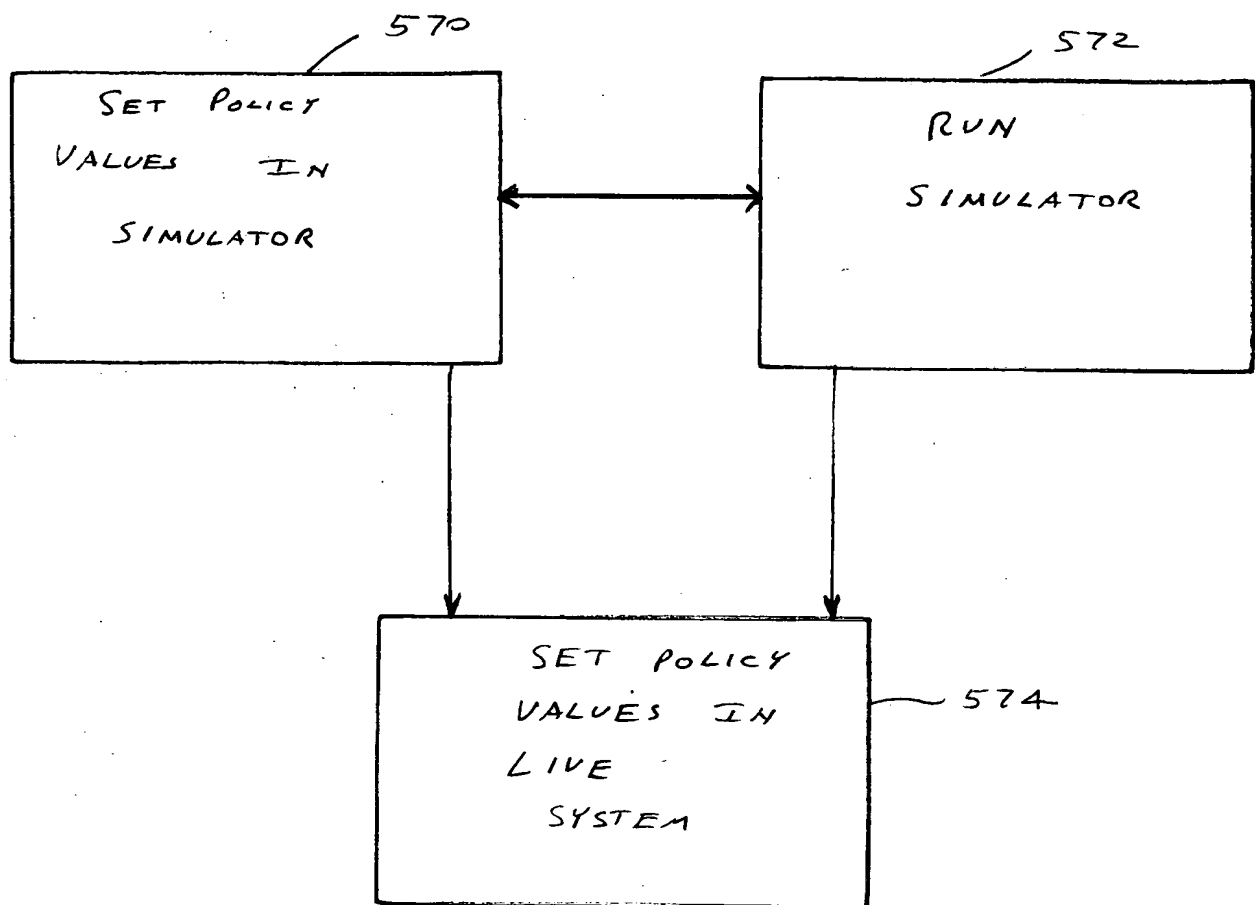


FIG. 17